

10/679,902

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resulting in a closer connection to BABS  
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 5 AUG 02 Caplus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN  
NEWS 14 OCT 28 KOREAPAT now available on STN  
  
NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:27:37 ON 09 NOV 2004

=> file reg

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:27:47 ON 09 NOV 2004

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9

DICTIONARY FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

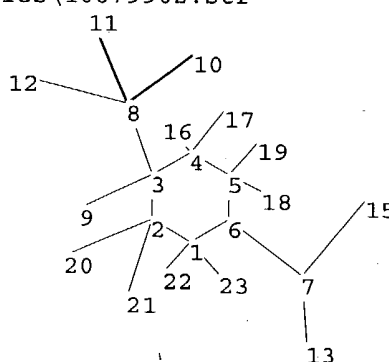
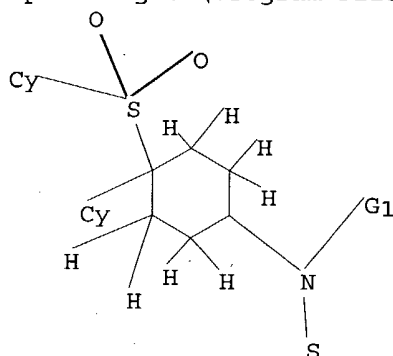
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10679902.str



chain nodes :

7 8 9 10 11 12 13 15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6

chain bonds :

1-22 1-23 2-20 2-21 3-8 3-9 4-16 4-17 5-18 5-19 6-7 7-13 7-15 8-10  
8-11 8-12

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

3-8 3-9 6-7 7-13 7-15 8-10 8-11 8-12

exact bonds :

1-2 1-6 1-22 1-23 2-3 2-20 2-21 3-4 4-5 4-16 4-17 5-6 5-18 5-19

isolated ring systems :

containing 1 :

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G1:H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS  
11:CLASS 12:Atom 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS  
20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 14:28:02 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1535 TO ITERATE

65.1% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

4 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

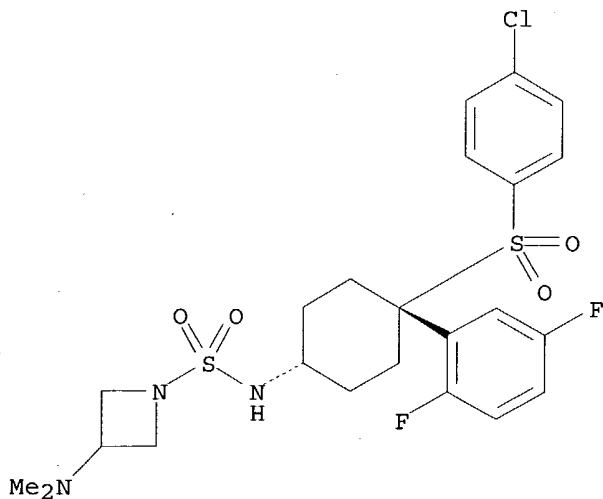
PROJECTED ITERATIONS: 28350 TO 33050  
PROJECTED ANSWERS: 4 TO 270

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-  
difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI)  
MF C23 H28 Cl F2 N3 O4 S2

Relative stereochemistry.



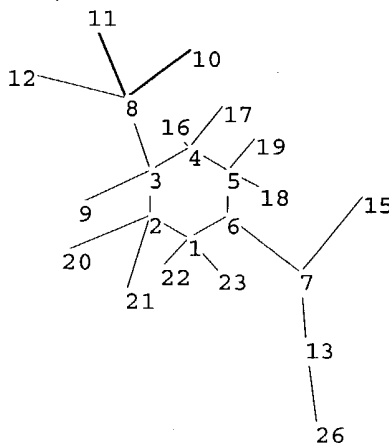
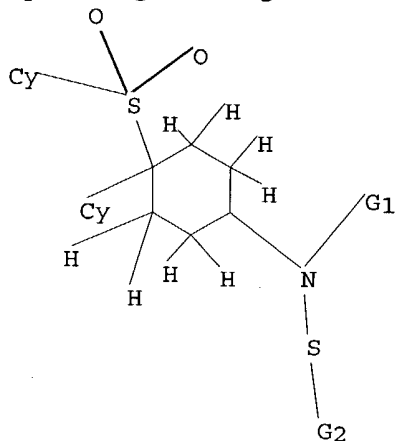
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Program Files\Stnexp\Queries\106799021.str



chain nodes :

7 8 9 10 11 12 13 15 16 17 18 19 20 21 22 23 26

ring nodes :

1 2 3 4 5 6

chain bonds :

1-22 1-23 2-20 2-21 3-8 3-9 4-16 4-17 5-18 5-19 6-7 7-13 7-15 8-10  
8-11 8-12 13-26

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

3-8 3-9 6-7 7-13 7-15 8-10 8-11 8-12 13-26

exact bonds :

1-2 1-6 1-22 1-23 2-3 2-20 2-21 3-4 4-5 4-16 4-17 5-6 5-18 5-19

isolated ring systems :

containing 1 :

G1:H,Ak

G2: Cy, Ak, CF3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS  
11:CLASS 12:Atom 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 26:CLASS

L3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 14:30:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1534 TO ITERATE

65.2% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

4 ANSWERS

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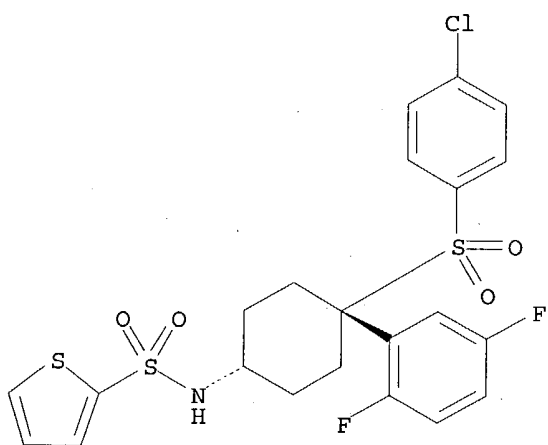
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 28331 TO 33029  
PROJECTED ANSWERS: 4 TO 270

L4 4 SEA SSS SAM L3

=> d scan

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-  
difluorophenyl)cyclohexyl]- (9CI)  
MF C22 H20 Cl F2 N O4 S3

Relative stereochemistry.

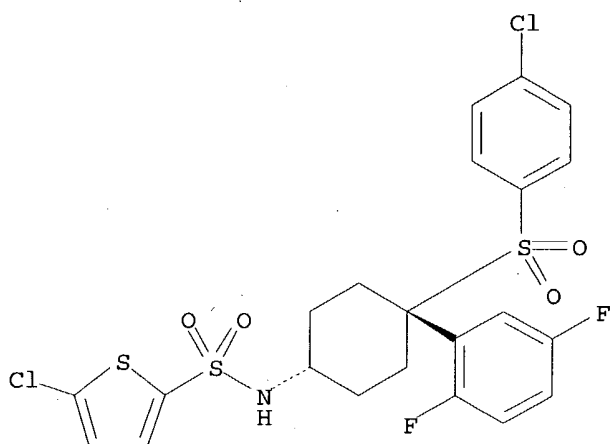


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(  
(2,5-difluorophenyl)cyclohexyl)- (9CI)  
MF C22 H19 Cl2 F2 N O4 S3

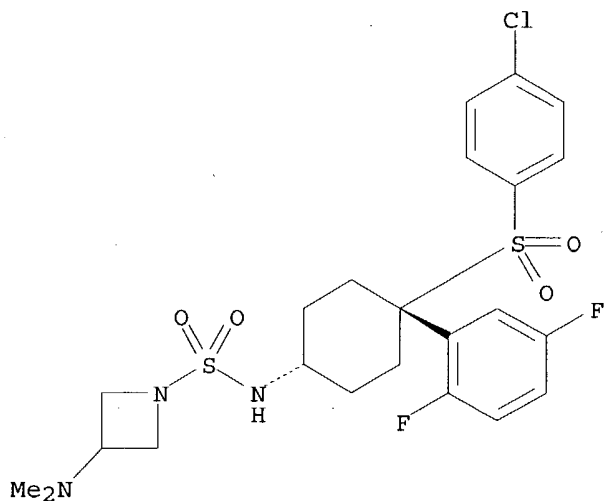
Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI)  
 MF C23 H28 Cl F2 N3 O4 S2

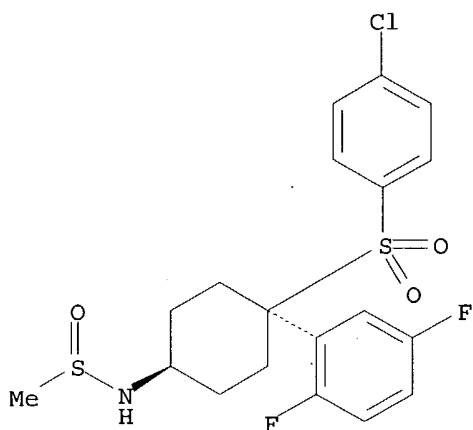
Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
 IN Methanesulfinamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI)  
 MF C19 H20 Cl F2 N O3 S2

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> s l3 ful  
FULL SEARCH INITIATED 14:31:29 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 31553 TO ITERATE

100.0% PROCESSED 31553 ITERATIONS 90 ANSWERS  
SEARCH TIME: 00.00.01

L5 90 SEA SSS FUL L3

|                      |            |         |
|----------------------|------------|---------|
| => file caplus       |            |         |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL   |
|                      | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 157.52     | 157.73  |

FILE 'CAPLUS' ENTERED AT 14:31:39 ON 09 NOV 2004  
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FILE COVERS 1907 - 9 Nov 2004 VOL 141 ISS 20  
FILE LAST UPDATED: 8 Nov 2004 (20041108/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> sl5

SL5 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s l5

L6 2 L5

=> d l6 ibib hitstr abs 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:308411 CAPLUS

DOCUMENT NUMBER: 140:321114

TITLE: Preparation of aryl (alkylsulfonylamino)cyclohexyl  
sulfones as  $\gamma$ -secretase inhibitors for treatment  
of Alzheimer's disease

INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia;  
Nadin, Alan John; Owens, Andrew Pate; Shaw, Duncan  
Edward; Thomson, Joanne; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.    | KIND   | DATE     | APPLICATION NO. | DATE     |
|---------------|--|----------|-----------------|----------|
| WO 2004031139 | A1   | 20040415 | WO 2003-GB4196  | 20030925 |
| W:            | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU |          |                 |          |
| RW:           | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |

US 2004121995 A1 20040624 US 2003-679902 20031006

PRIORITY APPLN. INFO.: GB 2002-23038 A 20021004

OTHER SOURCE(S): MARPAT 140:321114

IT 677772-40-6P, Methanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
677772-76-8P, 2-Methoxy-2-oxoethanesulfonic acid  
N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
677772-81-5P, 2-[[[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyl]acetamide 677772-96-2P,  
6-Chloro-3-pyridinesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-98-4P,  
Ethenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide 677773-00-1P,  
2-(Morpholin-4-yl)ethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide 677773-01-2P  
677773-10-3P



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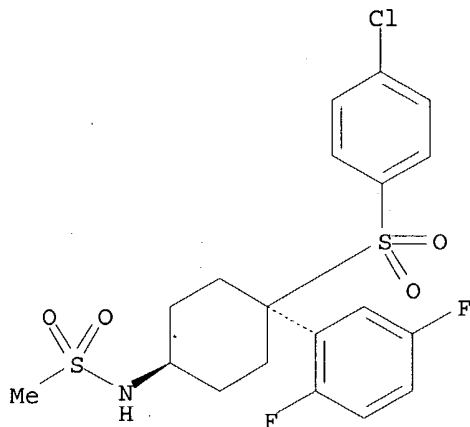
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

( $\gamma$ -secretase inhibitor; preparation of aryl cyclohexyl sulfones as inhibitors of  $\beta$ -amyloid formation for treatment of Alzheimer's disease)

RN 677772-40-6 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

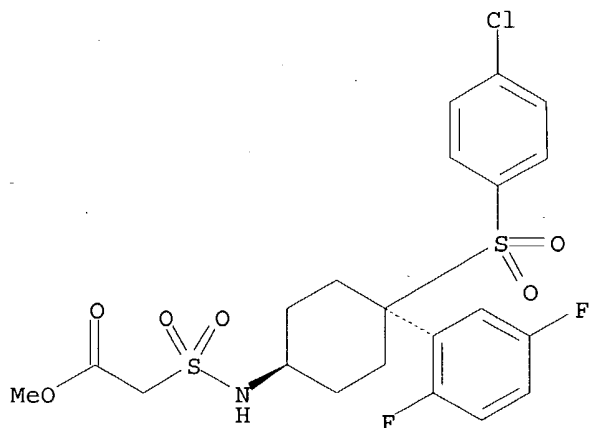
Relative stereochemistry.



RN 677772-76-8 CAPLUS

CN Acetic acid, [[[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

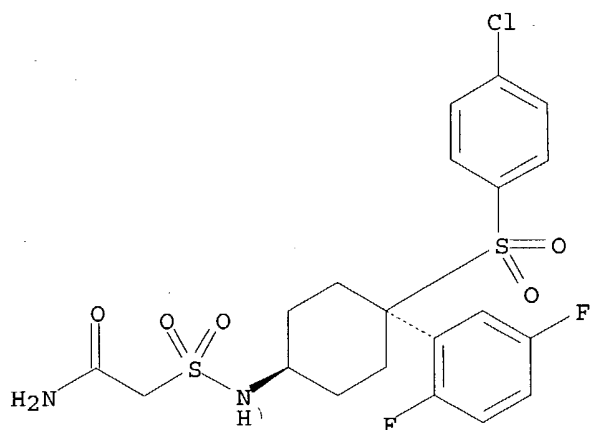


RN 677772-81-5 CAPLUS

CN Acetamide, 2-[[[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

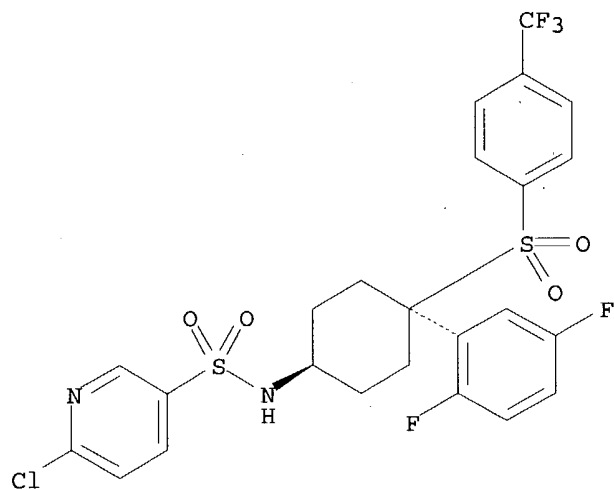
10/679,902



RN 677772-96-2 CAPLUS

CN 3-Pyridinesulfonamide, 6-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

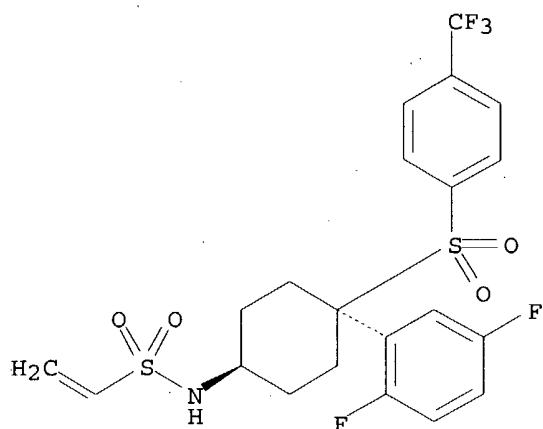


RN 677772-98-4 CAPLUS

CN Ethenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

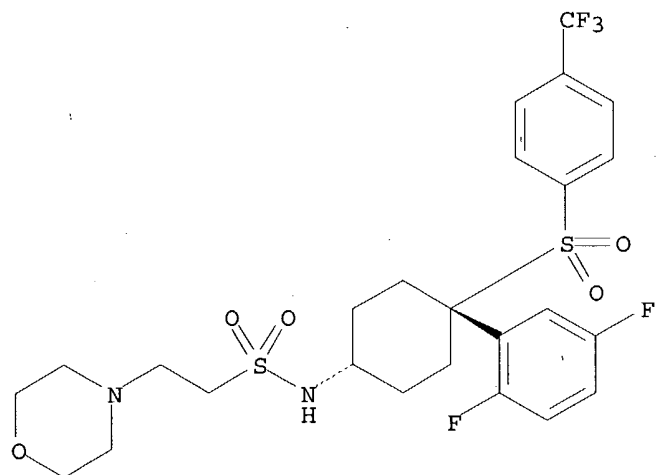
10/679,902



RN 677773-00-1 CAPLUS

CN 4-Morpholineethanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

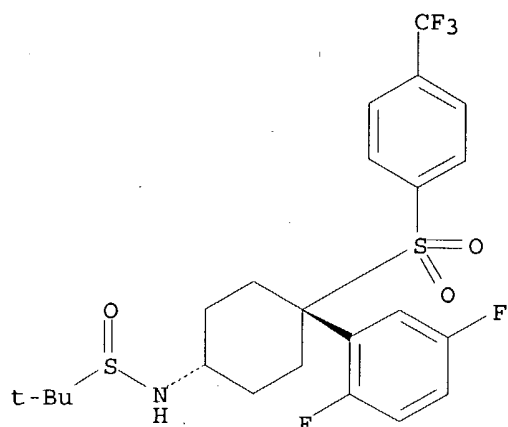
Relative stereochemistry.



RN 677773-01-2 CAPLUS

CN 2-Propanesulfinamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

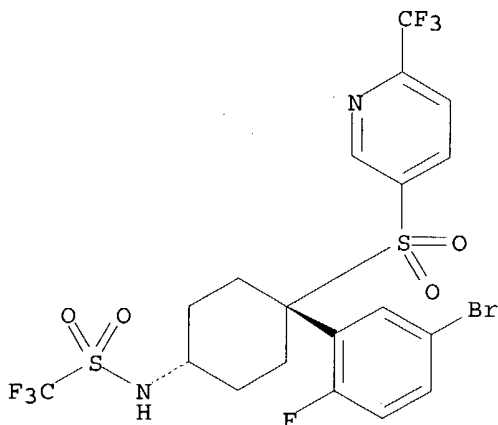
Relative stereochemistry.



RN 677773-10-3 CAPLUS

CN Methanesulfonamide, N-[cis-4-(5-bromo-2-fluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI)  
(CA INDEX NAME)

Relative stereochemistry.



IT 677772-33-7P 677772-41-7P, 2,2,2-Trifluoroethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-42-8P, Propanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-43-9P, Phenylmethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-44-0P, Benzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-45-1P, 2-Thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-46-2P, Ethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-47-3P, 5-Chloro-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-48-4P, Butanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-49-5P, 2-Fluorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-

difluorophenyl)cyclohexyl]amide 677772-50-8P,  
 3-Fluorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-51-9P,  
 4-Fluorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-52-0P, 2-Pyridinesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-53-1P,  
 5-Methyl-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-54-2P  
 677772-55-3P, 4-Chloro-2-thiophenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-56-4P, 2-(Trifluoromethyl)benzenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-57-5P, Isobutanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-58-6P, (Methylsulfonyl)methanesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-59-7P, 2-Methylbenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-60-0P, 4-Methyl-4H-1,2,4-triazole-3-sulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-61-1P 677772-62-2P, Chloromethanesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-63-3P, 2-Furansulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-64-4P, 2-Chlorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-65-5P, 2-Cyanobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-66-6P 677772-67-7P, 3-Thiophenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-68-8P, 3-Chloropropanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-69-9P, 1-Methyl-1H-tetrazole-5-sulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-70-2P, 1,2,4-Triazole-3-sulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-71-3P, 3-Chloro-2-thiophenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-72-4P, 1-Methyl-5-imidazolesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-73-5P, 1-Methyl-4-imidazolesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-74-6P, 1-Methyl-2-imidazolesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-75-7P, 2-Bromobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-77-9P, 3-Bromo-2-thiophenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-78-0P, 4-Bromo-2-thiophenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-79-1P, 5-Chloro-2-methoxybenzenesulfonic acid  
 N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-80-4P, 2-Methoxybenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-82-6P, 2-Hydroxyethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide  
 677772-83-7P, Cyanomethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-84-8P 677772-85-9P, Methanesulfonic acid

N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]-N-methylamide **677772-86-0P**, Methanesulfonic acid  
 N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-87-1P**, 2-Furansulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-88-2P**, Ethanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-89-3P**, (Methylsulfonyl)methanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-90-6P**, 1-Methyl-4-imidazolesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-91-7P**, 2-Pyridinesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-92-8P**, 5-Chloro-2-thiophenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-93-9P**, Propanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-94-0P**, 2-Thiophenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-95-1P**, 3-Thiophenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-97-3P**, 1,1-Dimethylethanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-99-5P**, 2-(Pyrrolidin-1-yl)ethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide **677773-02-3P**, 2-(Pyrrolidin-1-yl)ethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide **677773-03-4P**, Methanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-04-5P**, 2-Thiophenesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-05-6P**, Propanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-06-7P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-07-8P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-08-9P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-09-0P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-10-1P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-11-4P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-12-5P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-13-6P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl]cyclohexyl]amide **677773-14-7P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

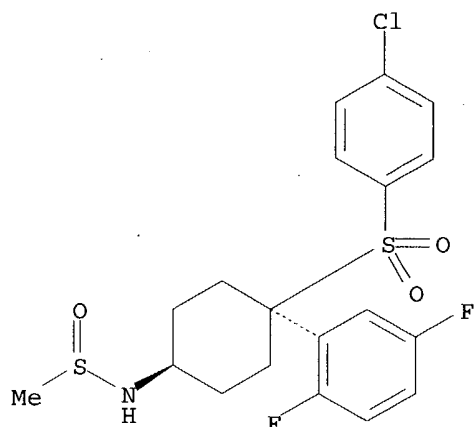
(γ-secretase inhibitor; preparation of aryl cyclohexyl sulfones as inhibitors of β-amyloid formation for treatment of Alzheimer's disease)

RN 677772-33-7 CAPLUS

CN Methanesulfinamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

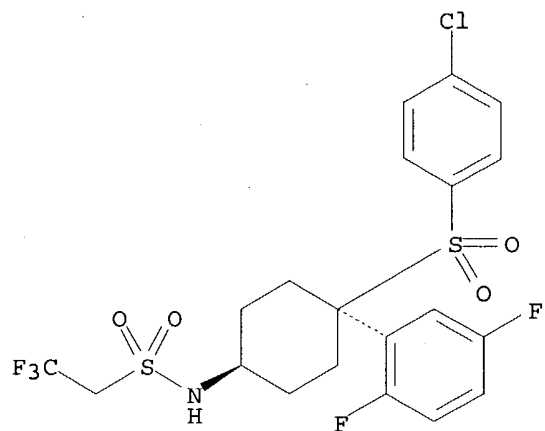
10/679,902



RN 677772-41-7 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

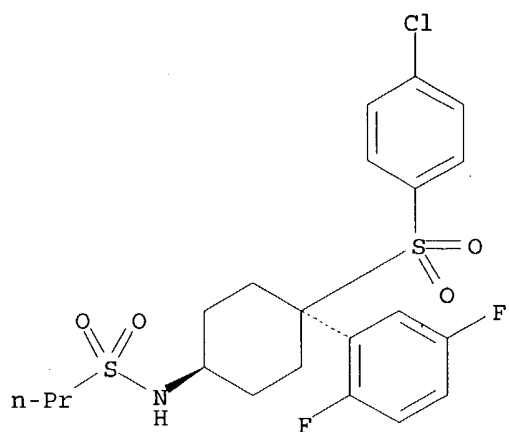


RN 677772-42-8 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

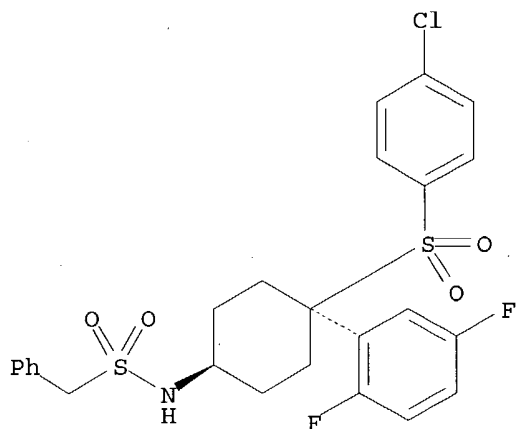
10/679,902



RN 677772-43-9 CAPLUS

CN Benzenemethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



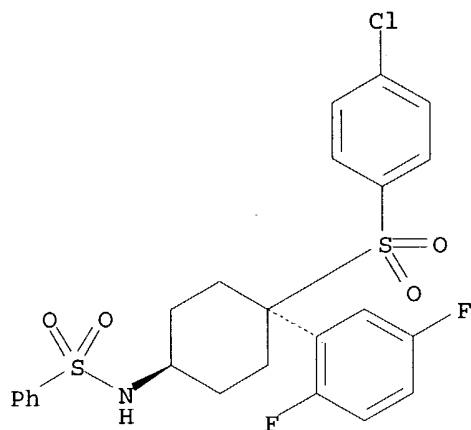
RN 677772-44-0 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



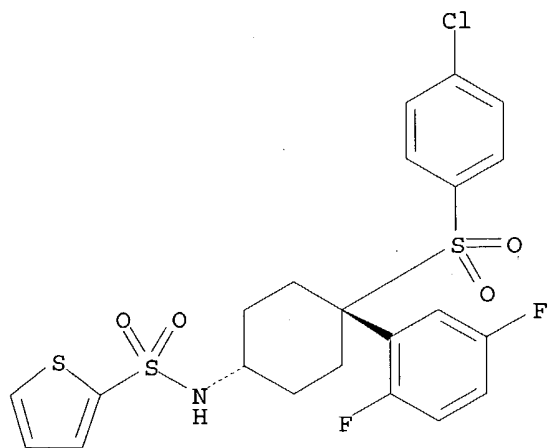
10/679,902



RN 677772-45-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

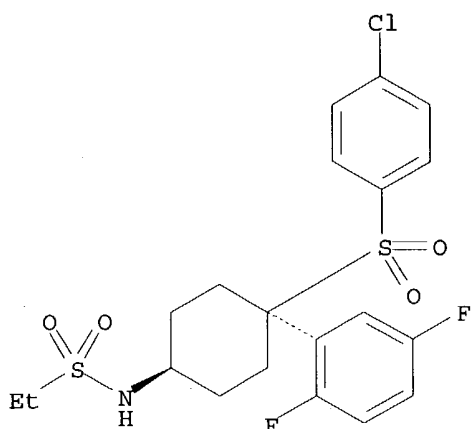


RN 677772-46-2 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

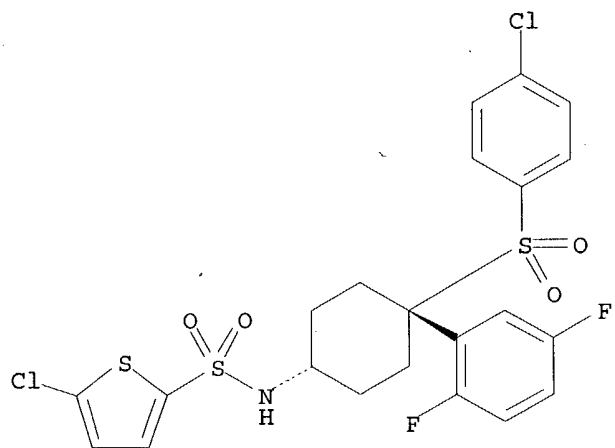
10/679,902



RN 677772-47-3 CAPLUS

CN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

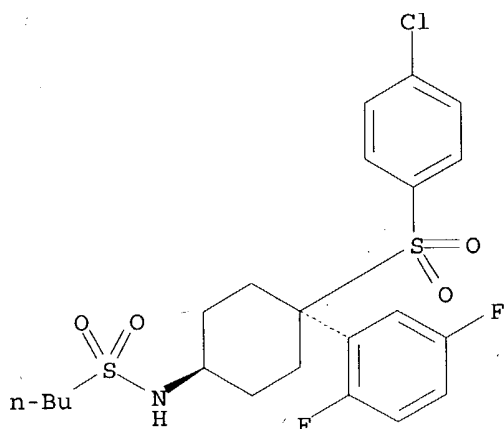


RN 677772-48-4 CAPLUS

CN 1-Butanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

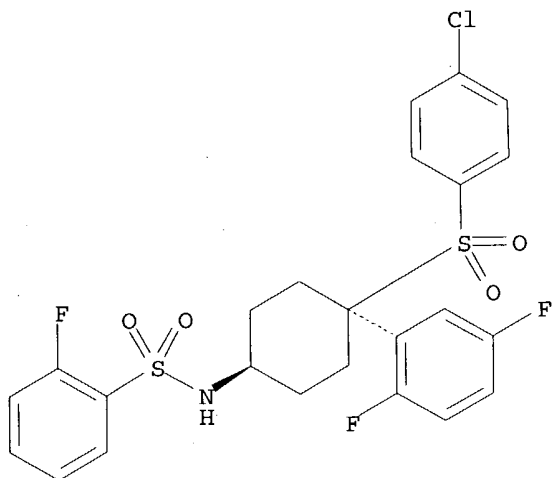
10/679,902



RN 677772-49-5 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-fluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

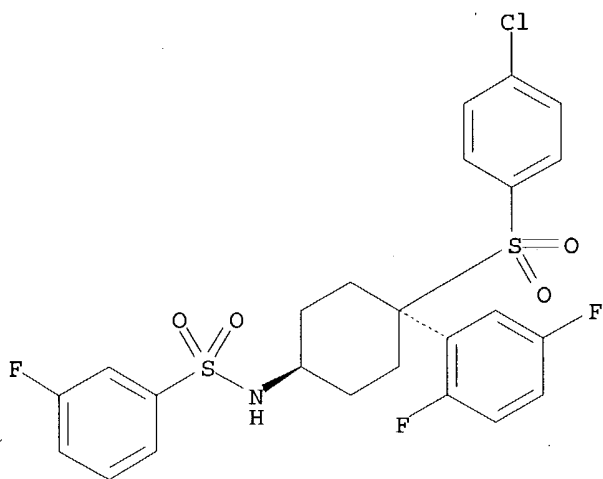


RN 677772-50-8 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-fluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

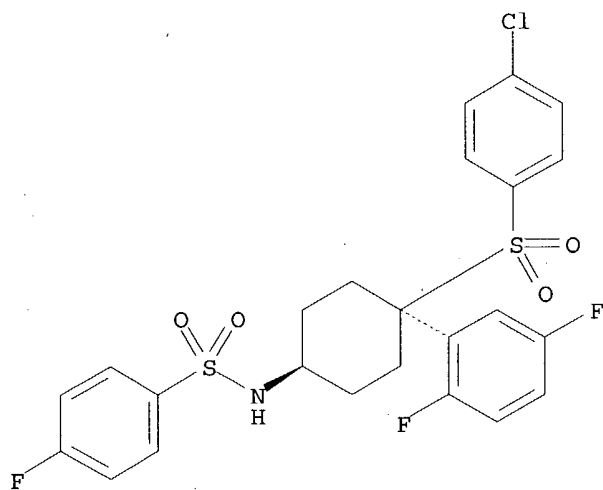
10/679,902



RN 677772-51-9 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-fluoro- (9CI) (CA INDEX NAME)

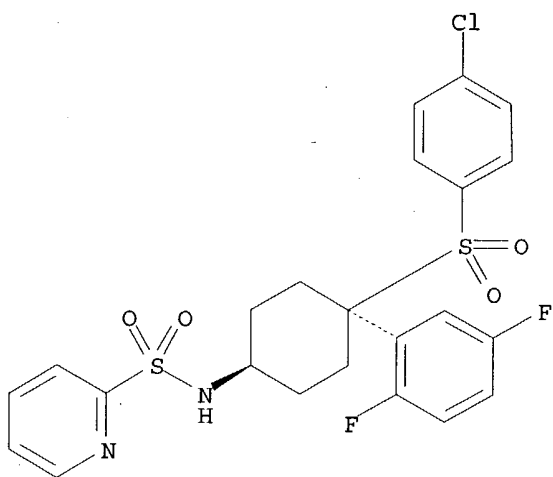
Relative stereochemistry.



RN 677772-52-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

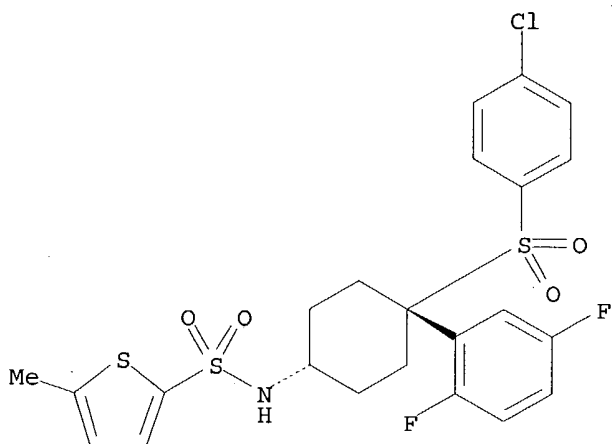
Relative stereochemistry.



RN 677772-53-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-5-methyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

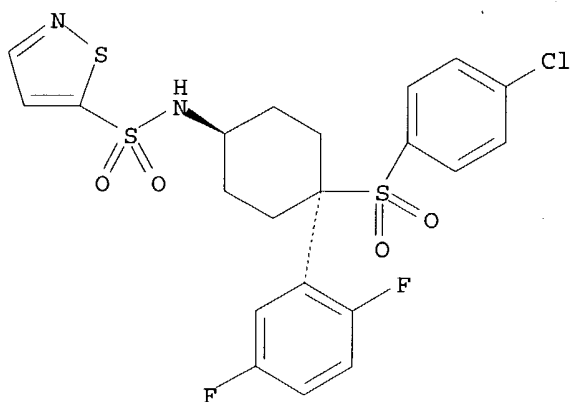


RN 677772-54-2 CAPLUS

CN 5-Isouthiazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

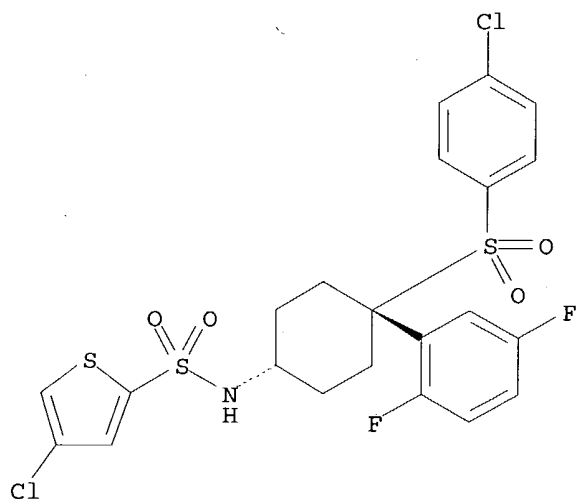
10/679,902



RN 677772-55-3 CAPLUS

CN 2-Thiophenesulfonamide, 4-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

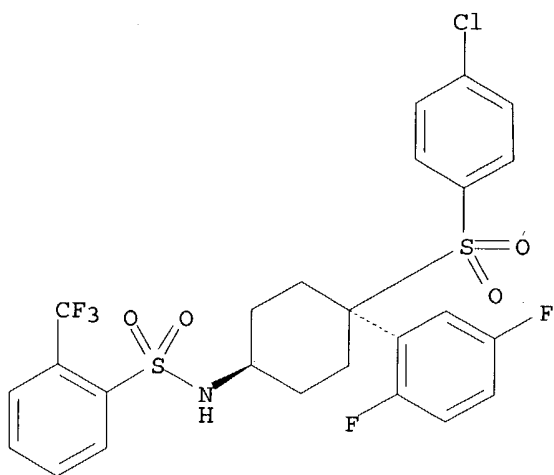


RN 677772-56-4 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

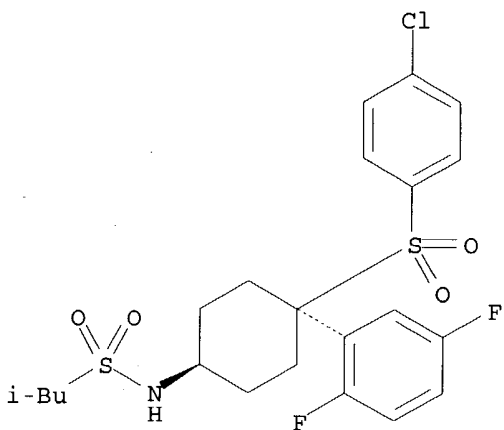
10/679,902



RN 677772-57-5 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

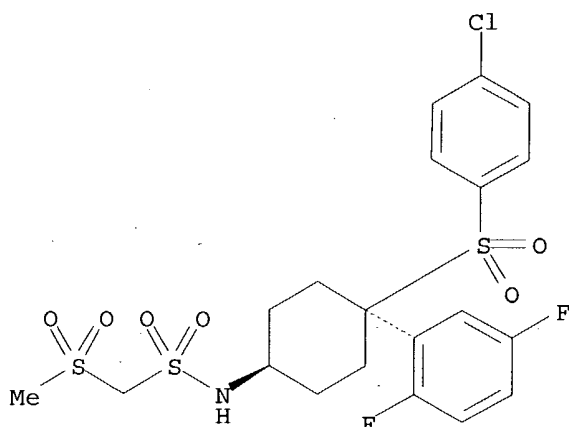


RN 677772-58-6 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-(methylsulfonyl)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

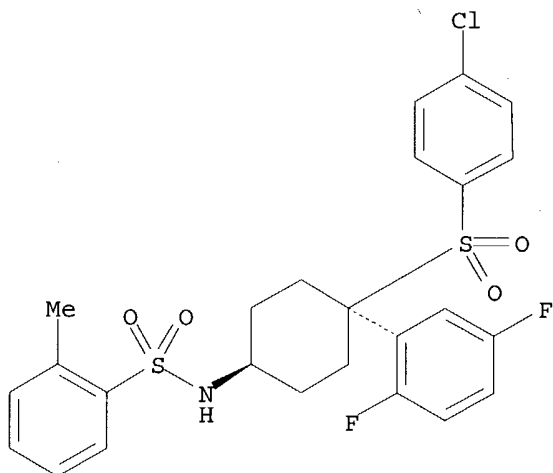
10/679,902



RN 677772-59-7 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

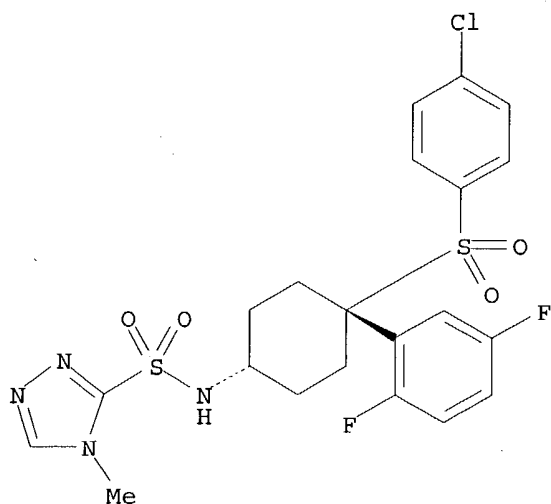


RN 677772-60-0 CAPLUS

CN 4H-1,2,4-Triazole-3-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-methyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

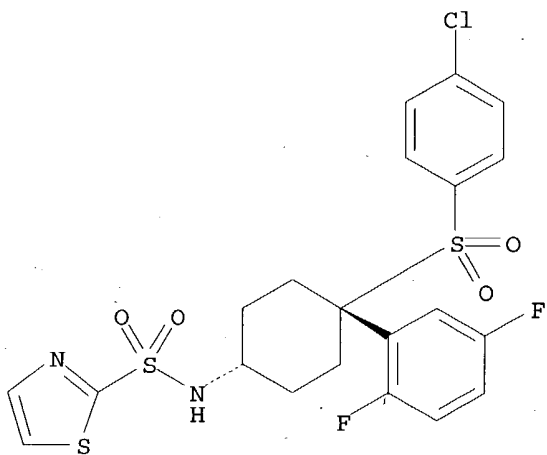




RN 677772-61-1 CAPLUS

CN 2-Thiazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

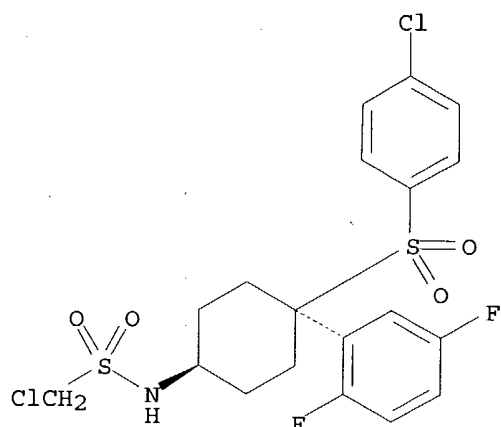


RN 677772-62-2 CAPLUS

CN Methanesulfonamide, 1-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

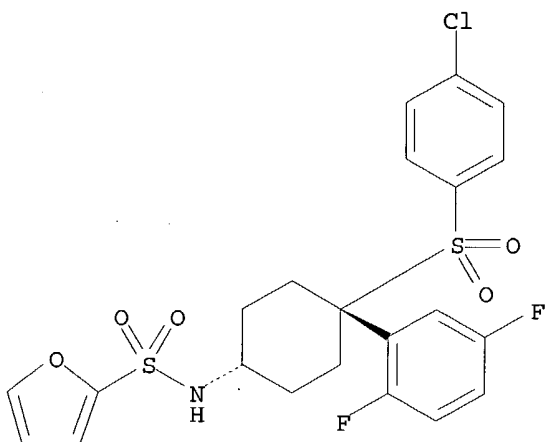
10/679,902



RN 677772-63-3 CAPLUS

CN 2-Furansulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

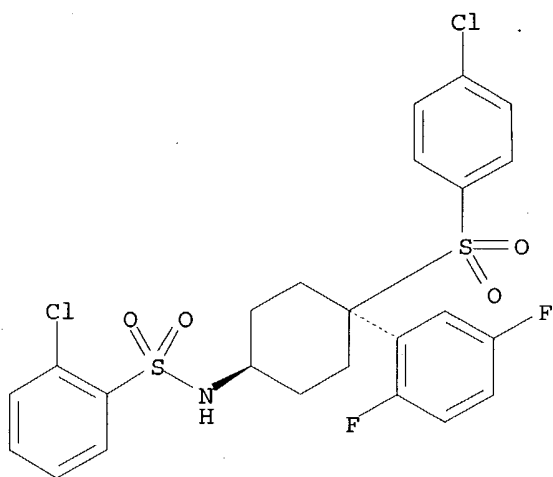


RN 677772-64-4 CAPLUS

CN Benzenesulfonamide, 2-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

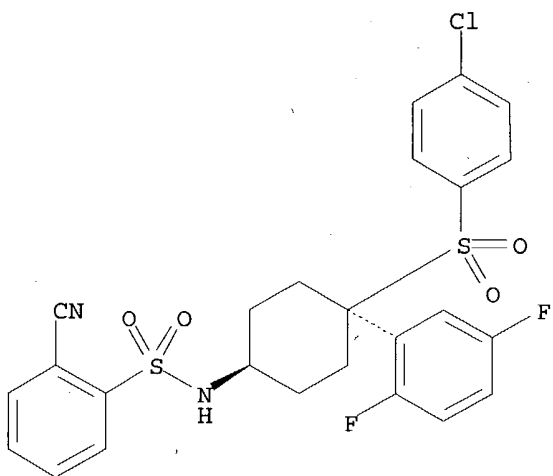
10/679,902



RN 677772-65-5 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-cyano- (9CI) (CA INDEX NAME)

Relative stereochemistry.

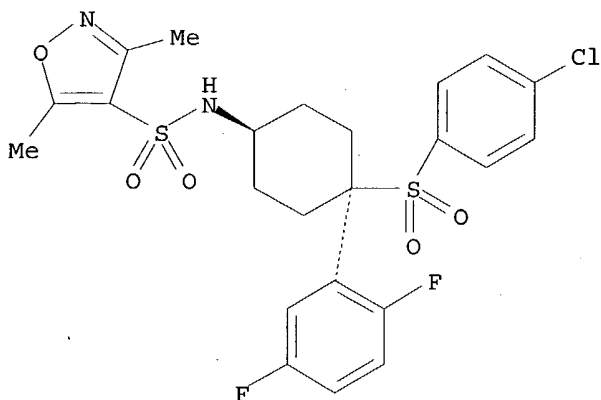


RN 677772-66-6 CAPLUS

CN 4-Isoxazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3,5-dimethyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

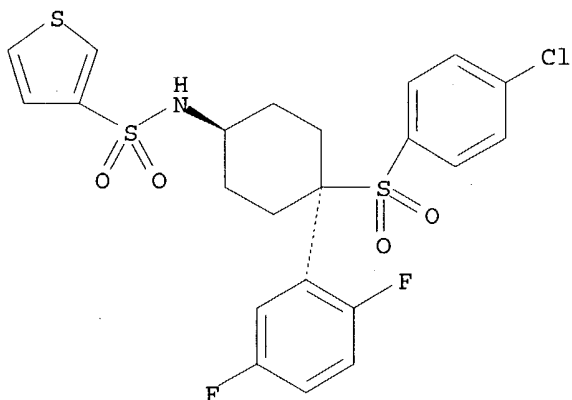
10/679,902



RN 677772-67-7 CAPLUS

CN 3-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

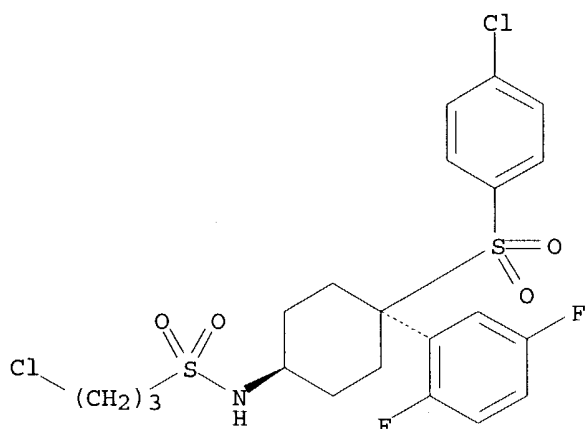
Relative stereochemistry.



RN 677772-68-8 CAPLUS

CN 1-Propanesulfonamide, 3-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

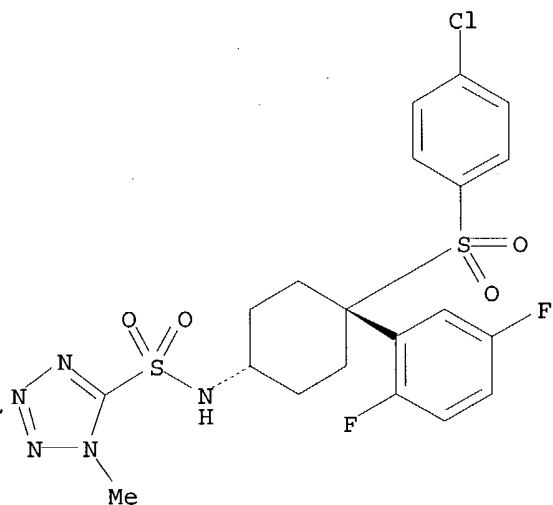
Relative stereochemistry.



RN 677772-69-9 CAPLUS

CN 1H-Tetrazole-5-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

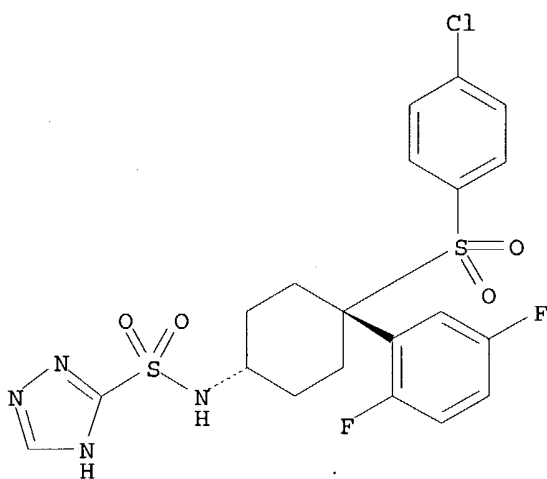
Relative stereochemistry.



RN 677772-70-2 CAPLUS

CN 1H-1,2,4-Triazole-3-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

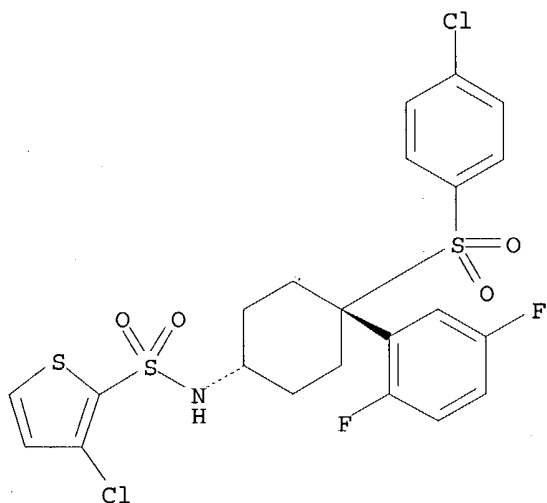
Relative stereochemistry.



RN 677772-71-3 CAPLUS

CN 2-Thiophenesulfonamide, 3-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

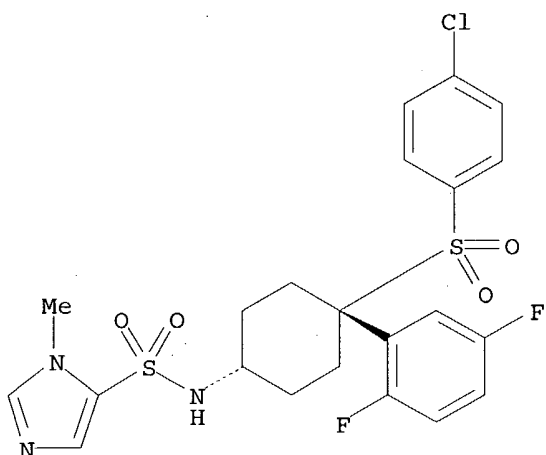
Relative stereochemistry.



RN 677772-72-4 CAPLUS

CN 1H-Imidazole-5-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

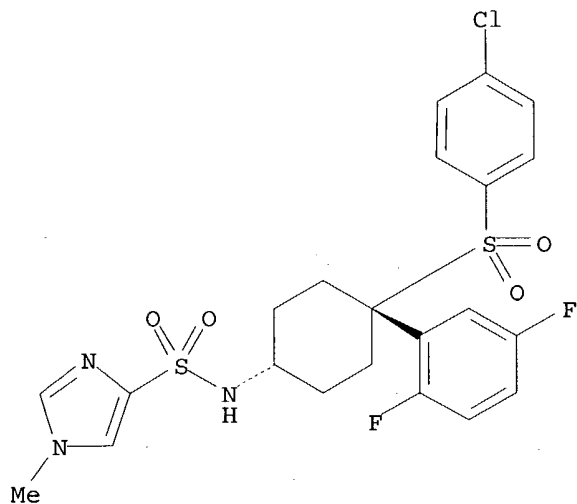
Relative stereochemistry.



RN 677772-73-5 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

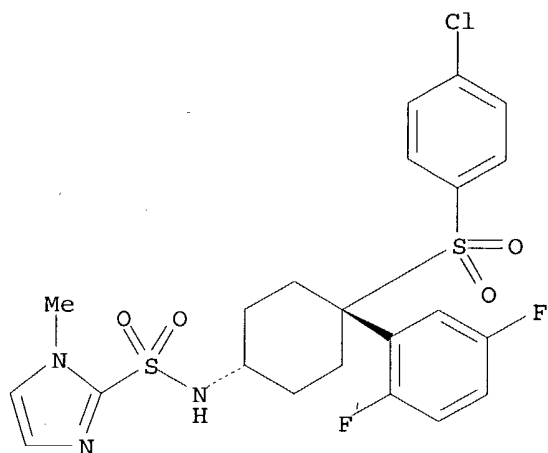
Relative stereochemistry.



RN 677772-74-6 CAPLUS

CN 1H-Imidazole-2-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

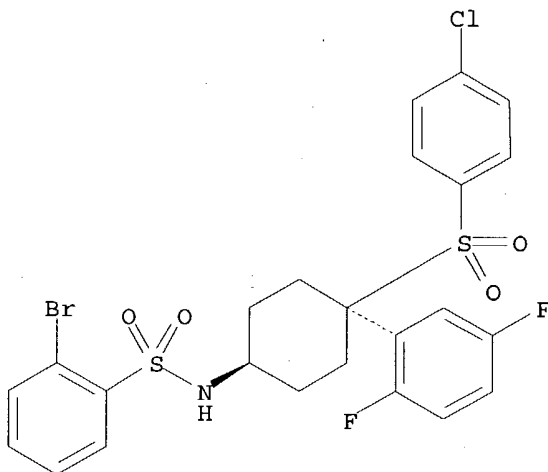
Relative stereochemistry.



RN 677772-75-7 CAPLUS

CN Benzenesulfonamide, 2-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

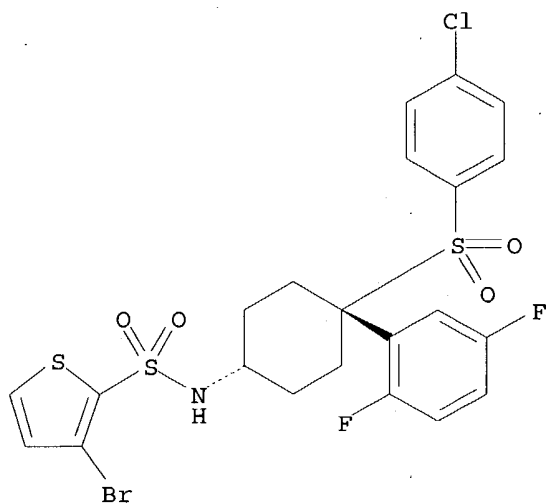


RN 677772-77-9 CAPLUS

CN 2-Thiophenesulfonamide, 3-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

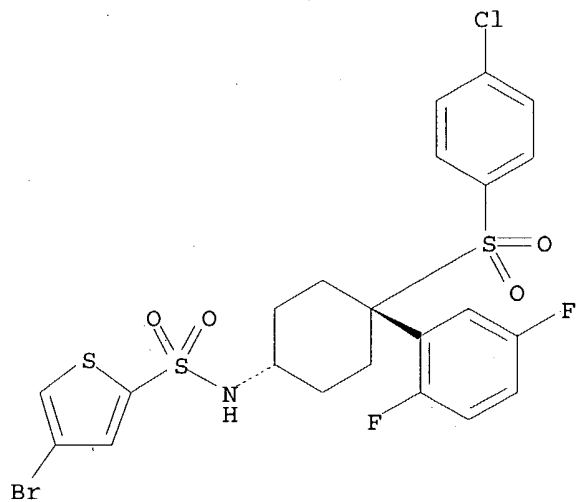




RN 677772-78-0 CAPLUS

CN 2-Thiophenesulfonamide, 4-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

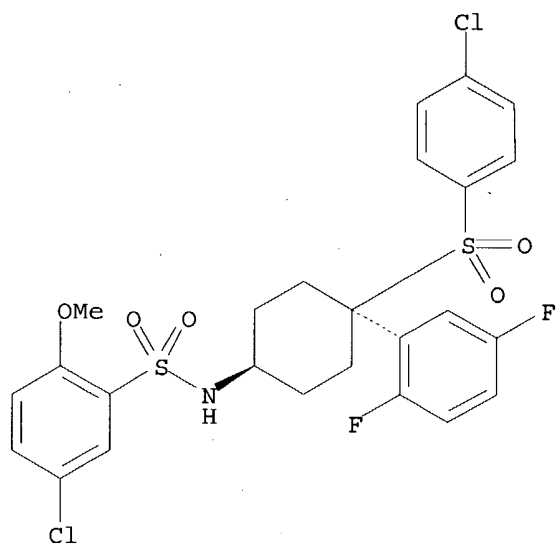


RN 677772-79-1 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.

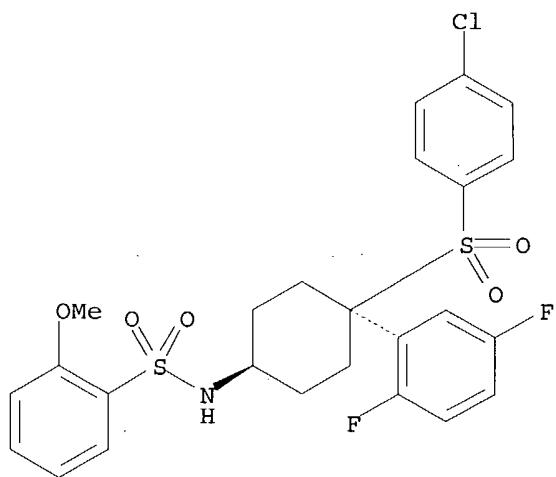
10/679,902



RN 677772-80-4 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methoxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.

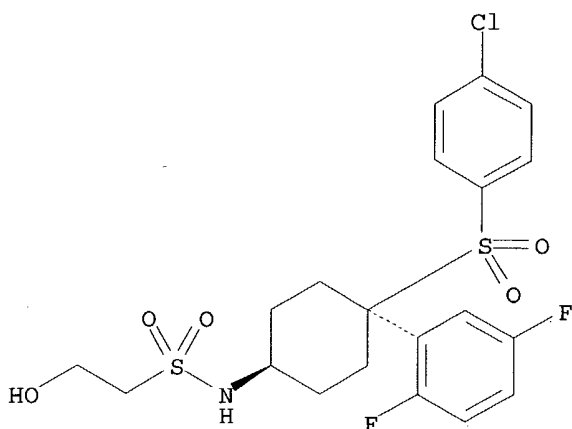


RN 677772-82-6 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-hydroxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.

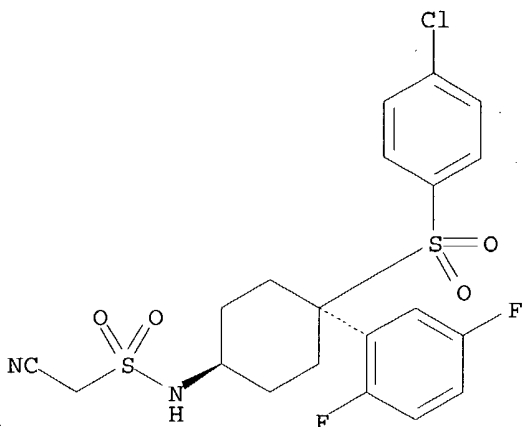
10/679,902



RN 677772-83-7 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-cyano- (9CI) (CA INDEX NAME)

Relative stereochemistry.

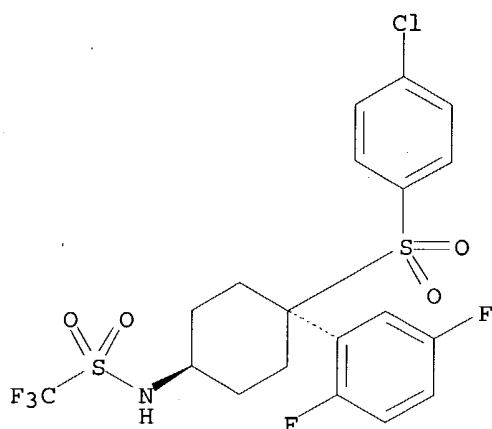


RN 677772-84-8 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

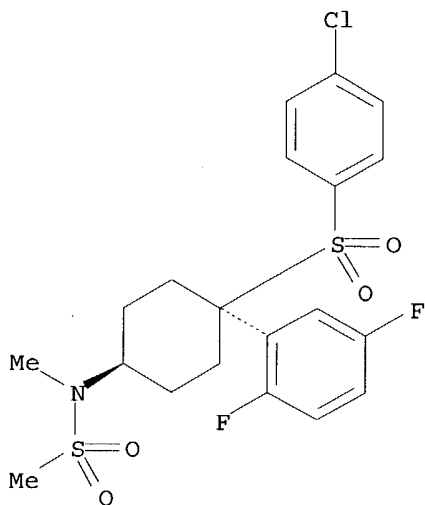
10/679,902



RN 677772-85-9 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-N-methyl- (9CI) (CA INDEX NAME)

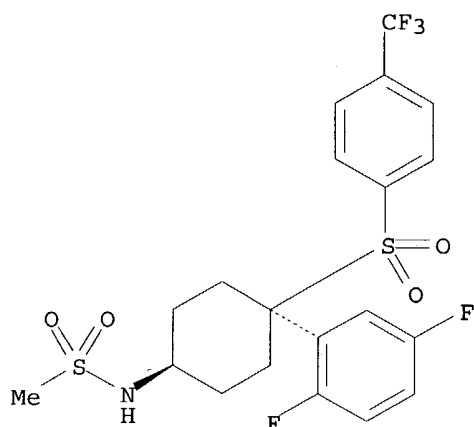
Relative stereochemistry.



RN 677772-86-0 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-N-methyl- (9CI) (CA INDEX NAME)

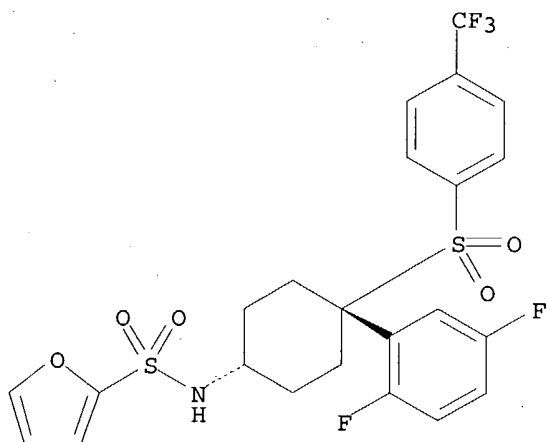
Relative stereochemistry.



RN 677772-87-1 CAPLUS

CN 2-Furansulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

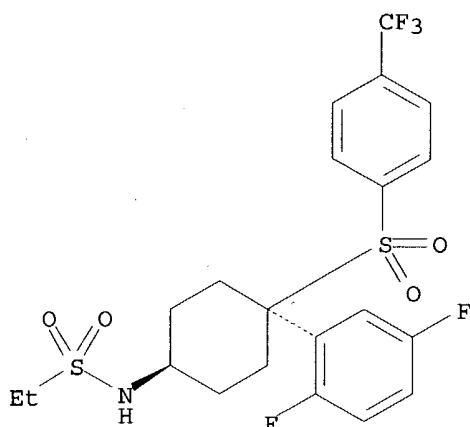


RN 677772-88-2 CAPLUS

CN Ethanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

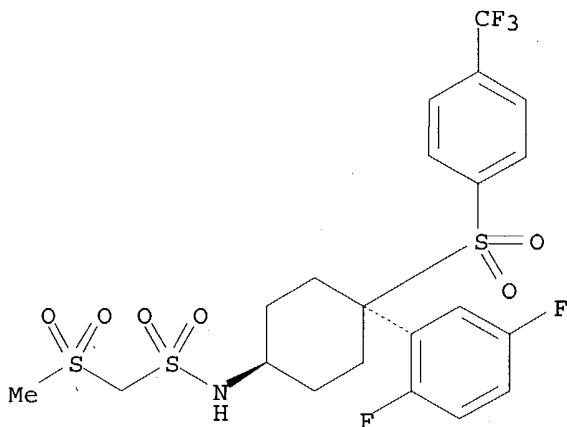
10/679,902



RN 677772-89-3 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-1-(methylsulfonyl)- (9CI)  
(CA INDEX NAME)

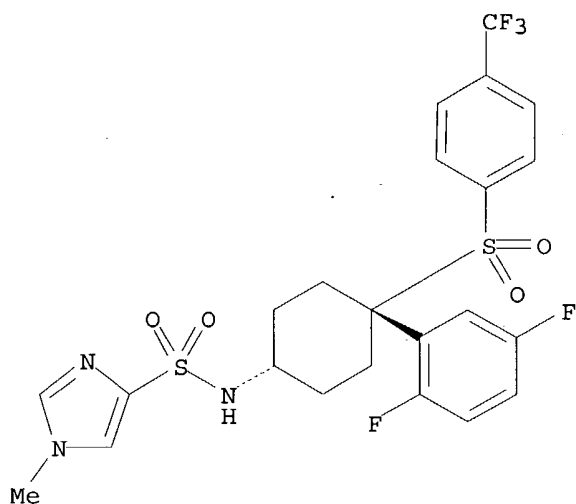
Relative stereochemistry.



RN 677772-90-6 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

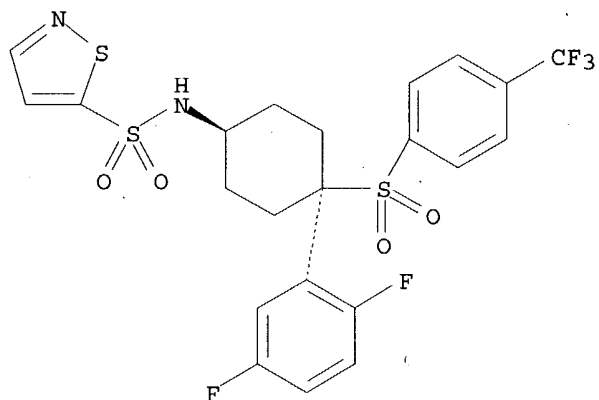
Relative stereochemistry.



RN 677772-91-7 CAPLUS

CN 5-Isothiazolesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

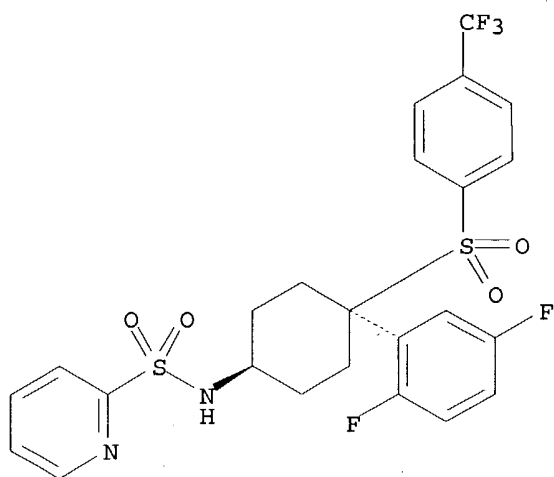


RN 677772-92-8 CAPLUS

CN 2-Pyridinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

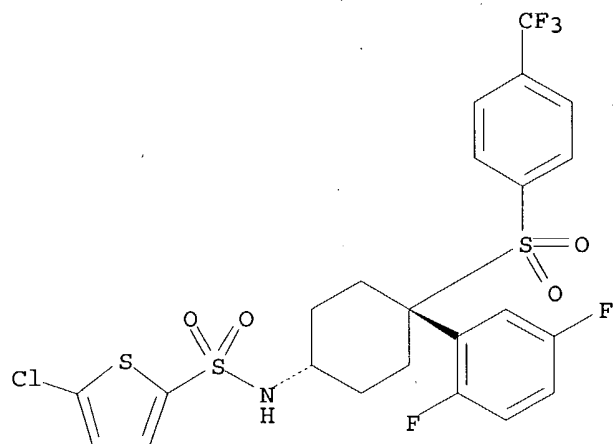
10/679,902



RN 677772-93-9 CAPLUS

CN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

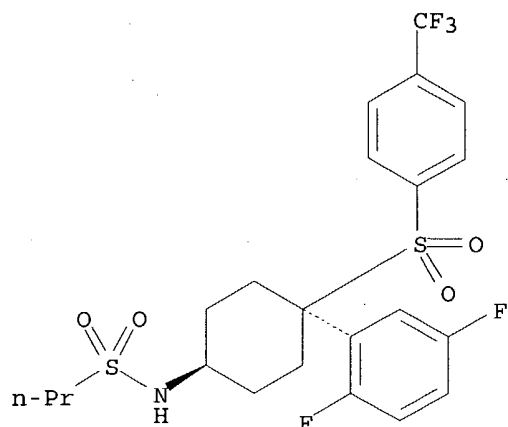


RN 677772-94-0 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

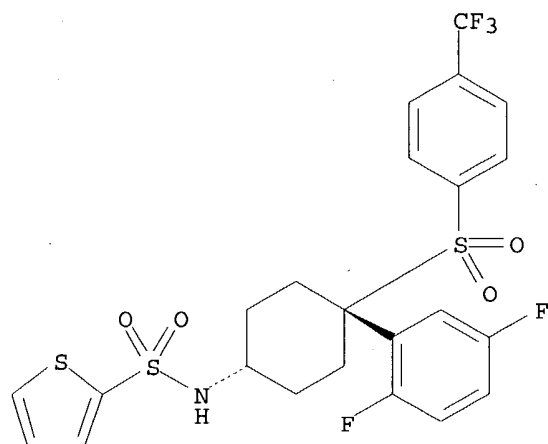




RN 677772-95-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

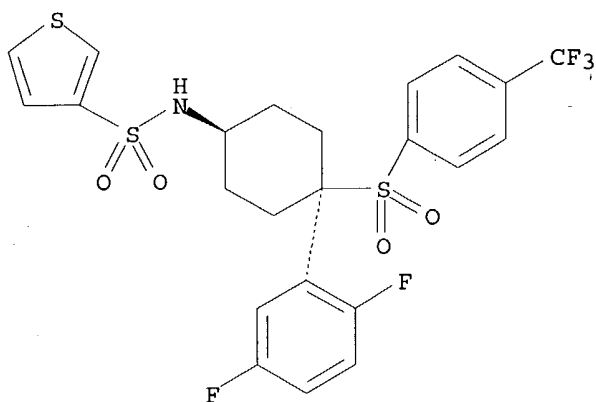


RN 677772-97-3 CAPLUS

CN 3-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

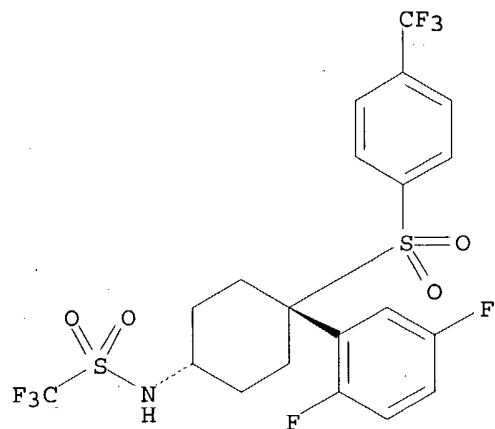
10/679,902



RN 677772-99-5 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

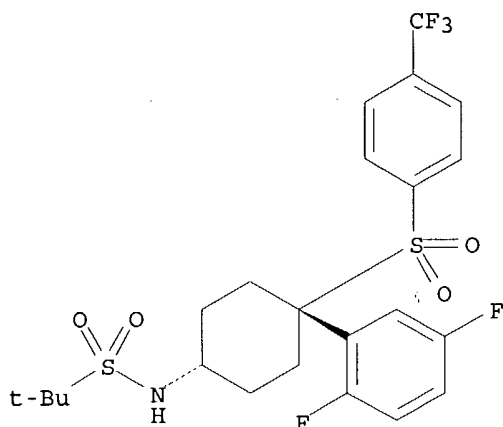


RN 677773-02-3 CAPLUS

CN 2-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

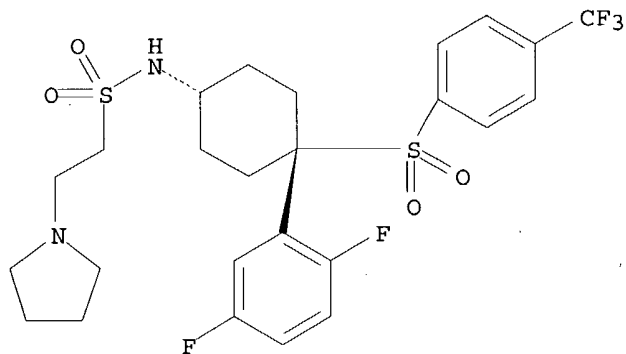
10/679,902



RN 677773-03-4 CAPLUS

CN 1-Pyrrolidineethanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

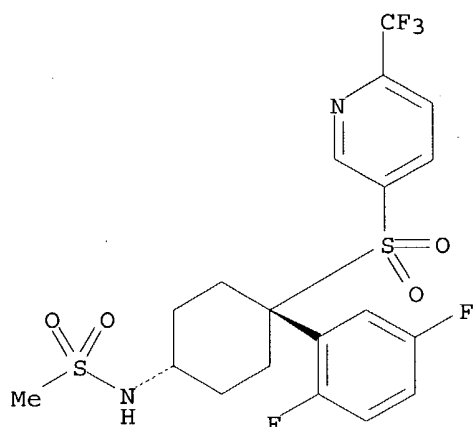


RN 677773-04-5 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

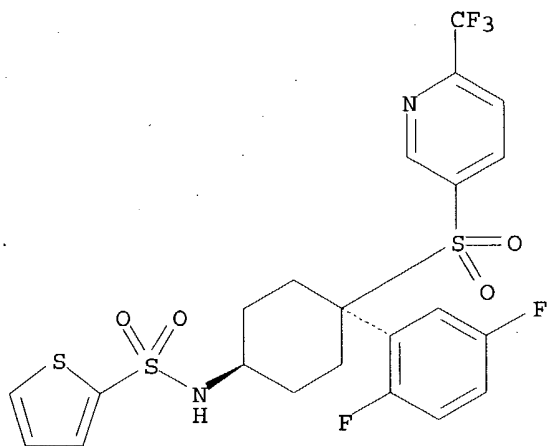
10/679,902



RN 677773-05-6 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

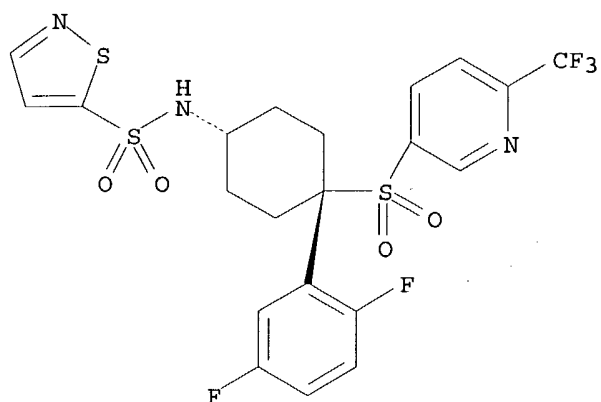


RN 677773-06-7 CAPLUS

CN 5-Isouthiazolesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

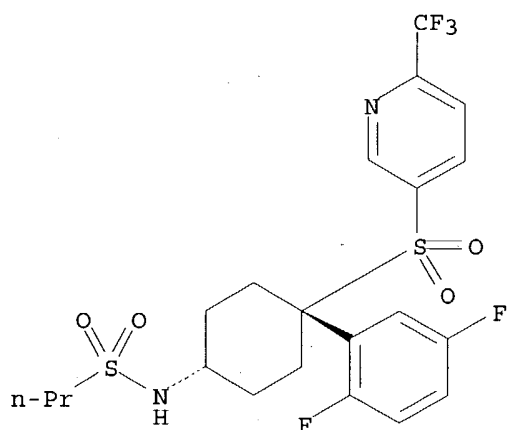
10/679,902



RN 677773-07-8 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

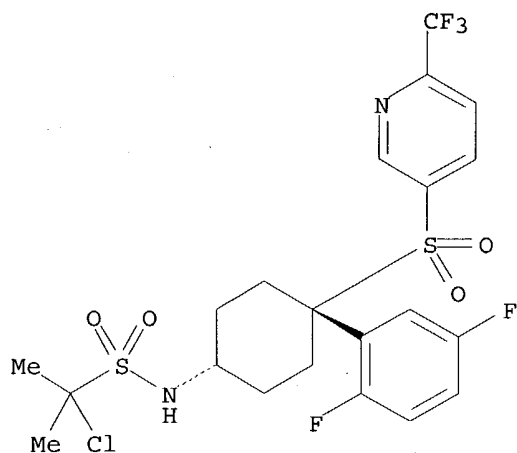
Relative stereochemistry.



RN 677773-08-9 CAPLUS

CN 2-Propanesulfonamide, 2-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

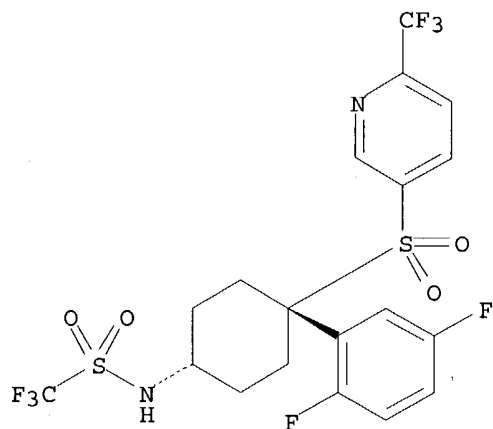
Relative stereochemistry.



RN 677773-09-0 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

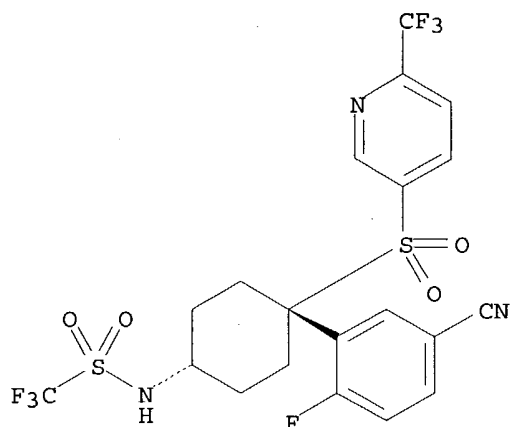
Relative stereochemistry.



RN 677773-11-4 CAPLUS

CN Methanesulfonamide, N-[cis-4-(5-cyano-2-fluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

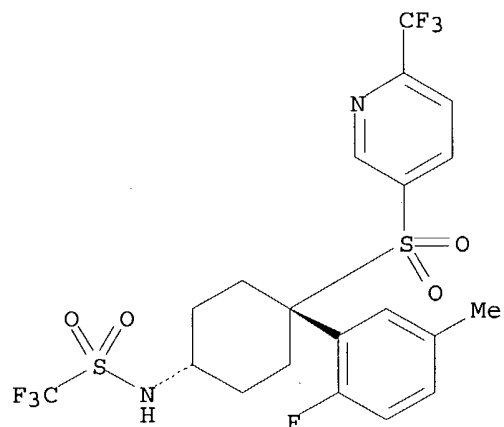
Relative stereochemistry.



RN 677773-12-5 CAPLUS

CN Methanesulfonamide, 1,1,1-trifluoro-N-[cis-4-(2-fluoro-5-methylphenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

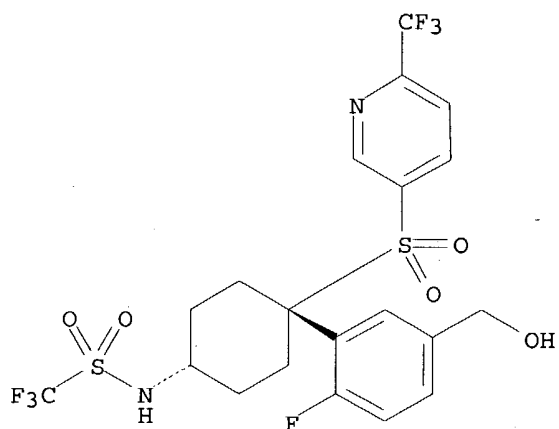


RN 677773-13-6 CAPLUS

CN Methanesulfonamide, 1,1,1-trifluoro-N-[cis-4-[2-fluoro-5-(hydroxymethyl)phenyl]-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

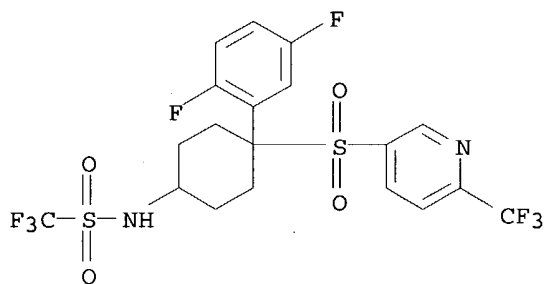
Relative stereochemistry.

10/679,902



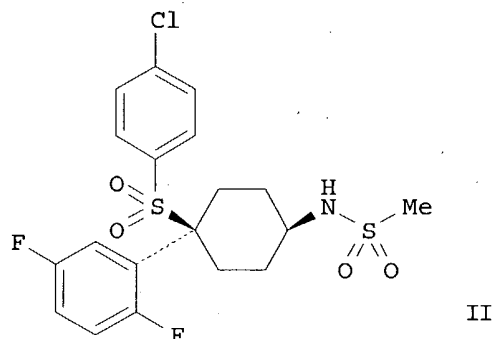
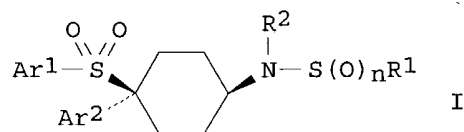
RN 677773-14-7 CAPLUS

CN Methanesulfonamide, N-[4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)



GI





AB Title compds. I [wherein n = 1 or 2; R1 = CF<sub>3</sub>, aryl(alkyl), heterocycl(alkyl), or (un)substituted alkyl, alkenyl, cycloalkyl(alkyl); R2 = H or alkyl; R3 = H, alkyl, Ph, or heteroaryl; R4 = alkyl, Ph, or heteroaryl; R5 = H or alkyl; or N(R5)<sub>2</sub> = azetidiny, pyrrolidinyl, piperidinyl, morpholinyl, or (1,1-dioxido)thiomorpholinyl; Ar1 and Ar2 = independently (un)substituted Ph or heteroaryl; or pharmaceutically acceptable salts thereof] were prepared as inhibitors of the processing of amyloid precursor protein (APP) by  $\gamma$ -secretase. For example, reduction of 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexanone to the alc., followed by mesylation, conversion to the azide, and reduction gave 4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexylamine. Reaction of the amine with MeSO<sub>2</sub>Cl using TEA in CH<sub>2</sub>Cl<sub>2</sub> provided the sulfonamide II. Compds. of the invention inhibited  $\beta$ -amyloid formation in SH-SY5Y cells stably over-expressing a  $\beta$ APP C-terminal fragment with ED<sub>50</sub> values <0.5  $\mu$ M, and in most cases <100 nM. Thus, I and their pharmaceutical compns. are useful in treating or preventing Alzheimer's disease or other condition associated with the deposition of  $\beta$ -amyloid (no data).

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:308409 CAPLUS

DOCUMENT NUMBER: 140:321108

TITLE: Preparation of aryl cyclohexyl sulfones as  $\gamma$ -secretase inhibitors useful against Alzheimer's disease

INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

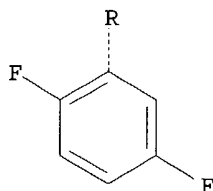
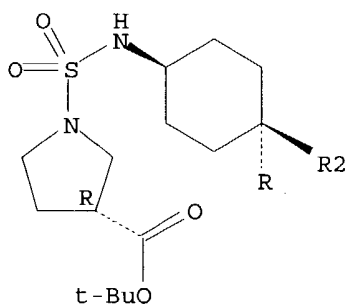
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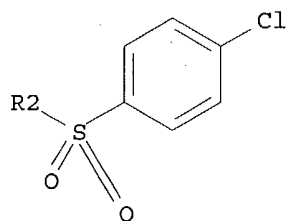
## PATENT INFORMATION:

| PATENT NO.   | KIND   | DATE     | APPLICATION NO. | DATE       |
|--|--|----------|-----------------|------------|
| WO 2004031137  | A1   | 20040415 | WO 2003-GB4102  | 20030925   |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,<br>GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR,<br>LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,<br>PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,<br>TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,<br>KG, KZ, MD, RU<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,<br>CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,<br>NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,<br>GW, ML, MR, NE, SN, TD, TG |  |          |                 |            |
| US 2004122050  | A1   | 20040624 | US 2003-679557  | 20031006   |
| PRIORITY APPLN. INFO.:   |  |          | GB 2002-23039   | A 20021004 |
| OTHER SOURCE(S): MARPAT 140:321108   |  |          |                 |            |
| IT 679432-96-3P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[[(R)-3-[(tert-butoxy)carbonyl]pyrrolidin-1-yl]sulfonyl]amino]cyclohexane 679433-00-2P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[[(3-hydroxyazetidin-1-yl)sulfonyl]amino]cyclohexane<br>RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)<br>(drug candidate; preparation of aryl cyclohexyl sulfones as $\gamma$ -secretase inhibitors useful against Alzheimer's disease)  |  |          |                 |            |
| RN   | 679432-96-3 CAPLUS   |          |                 |            |
| CN   | 3-Pyrrolidinecarboxylic acid, 1-[[[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyl]-, 1,1-dimethylethyl ester, (3R)-(9CI) (CA INDEX NAME) |          |                 |            |

Absolute stereochemistry.

PAGE 1-A

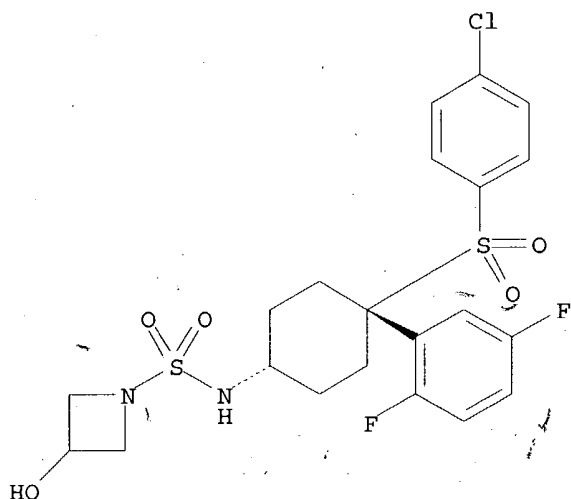




RN 679433-00-2 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 679432-91-8P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[pyrrolidin-1-yl)sulfonyl]amino]cyclohexane  
 679432-92-9P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[azetidin-1-yl)sulfonyl]amino]cyclohexane  
 679432-93-0P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3,3-difluoroazetidin-1-yl)sulfonyl]amino]cyclohexane  
 679432-94-1P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[4-trifluoromethylpiperidin-1-yl)sulfonyl]amino]cyclohexane 679432-95-2P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[morpholin-4-yl)sulfonyl]amino]cyclohexane 679432-97-4P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-hydroxypyrrolidin-1-yl)sulfonyl]amino]cyclohexane 679432-98-5P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-oxopyrrolidin-1-yl)sulfonyl]amino]cyclohexane 679432-99-6P  
 679433-01-3P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-hydroxy-3-methylazetidin-1-yl)sulfonyl]amino]cyclohexane 679433-02-4P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-(dimethylamino)azetidin-1-yl)sulfonyl]amino]cyclohexane

10/679,902

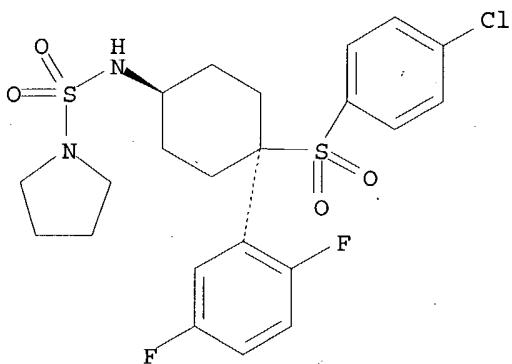
**679433-12-6P**, Pyrrolidine-1-sulfonic acid [cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide  
**679433-14-8P**, Pyrrolidine-1-sulfonic acid [cis-4-(2,5-difluorophenyl)-4-(6-trifluoromethylpyridyl-3-sulfonyl)cyclohexyl]amide  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aryl cyclohexyl sulfones as  $\gamma$ -secretase inhibitors useful against Alzheimer's disease)

RN 679432-91-8 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

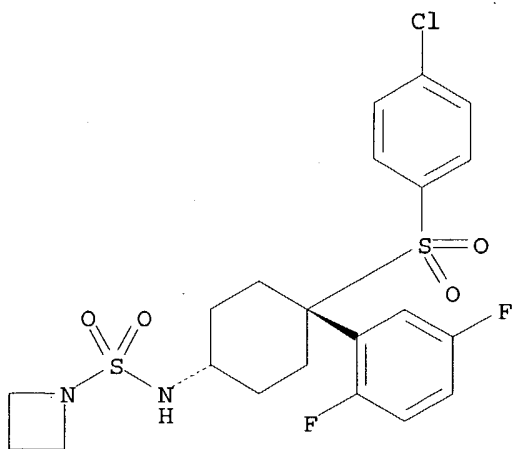
Relative stereochemistry.



RN 679432-92-9 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

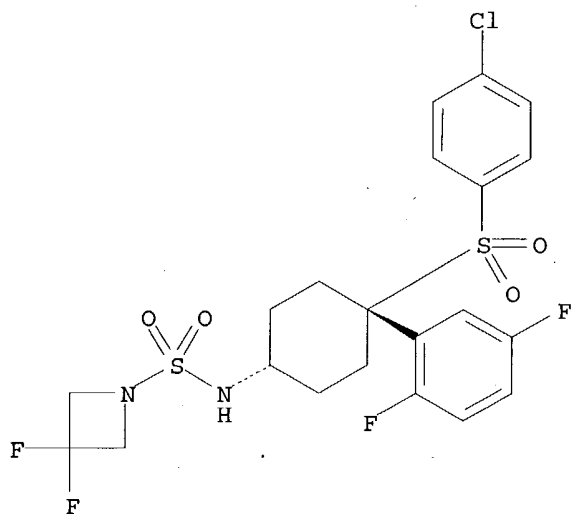


RN 679432-93-0 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3,3-difluoro- (9CI) (CA INDEX NAME)

Relative stereochemistry.

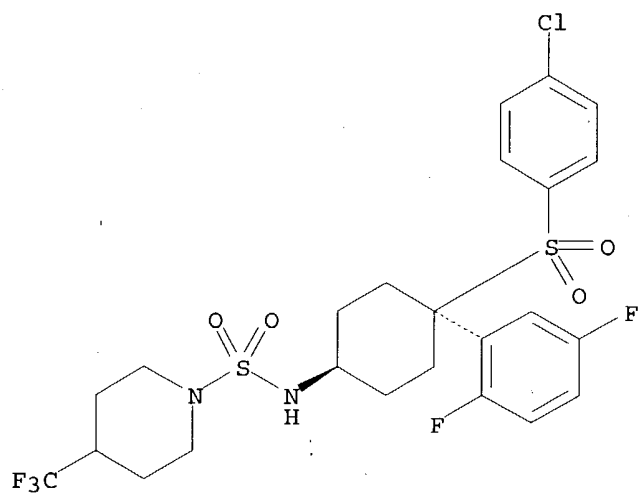
10/679,902



RN 679432-94-1 CAPLUS

CN 1-Piperidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

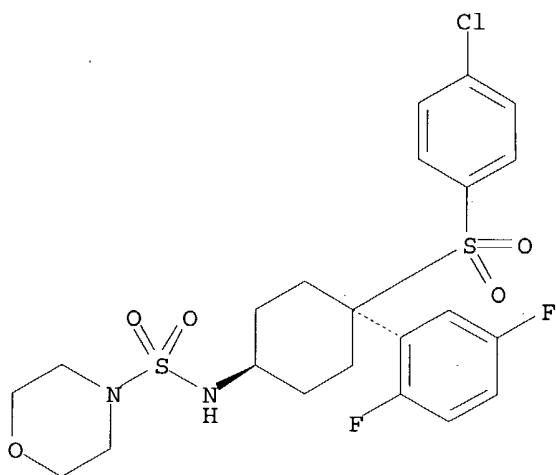
Relative stereochemistry.



RN 679432-95-2 CAPLUS

CN 4-Morpholinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

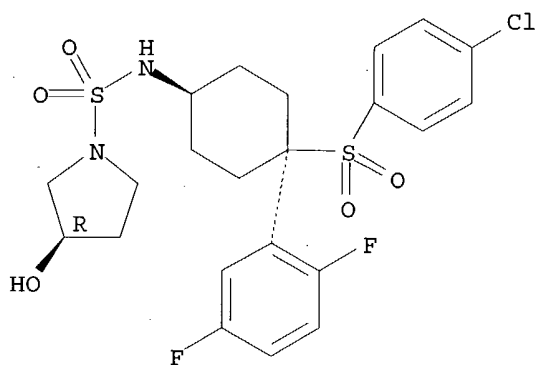
Relative stereochemistry.



RN 679432-97-4 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

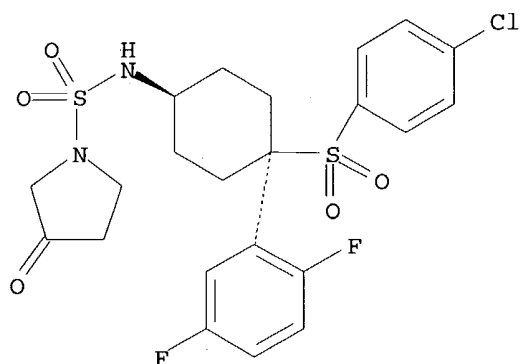


RN 679432-98-5 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-oxo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

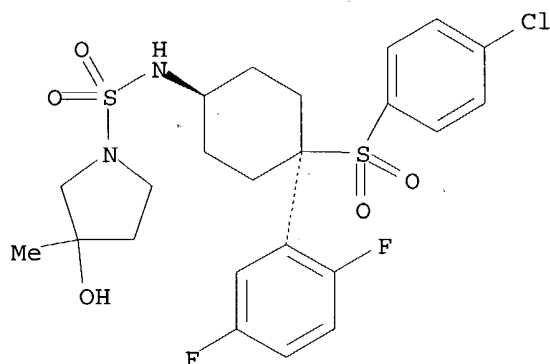
10/679,902



RN 679432-99-6 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)

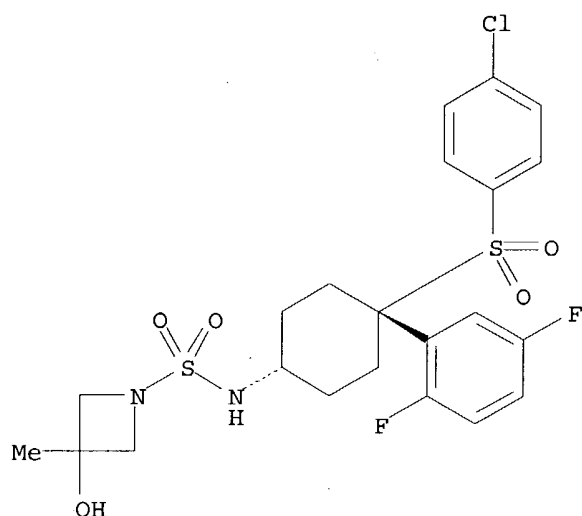
Relative stereochemistry.



RN 679433-01-3 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)

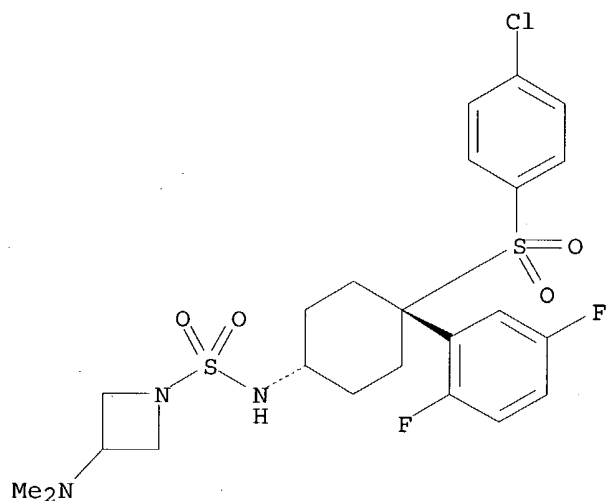
Relative stereochemistry.



RN 679433-02-4 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



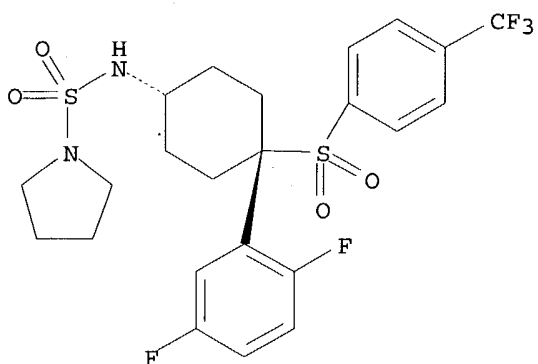
RN 679433-12-6 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



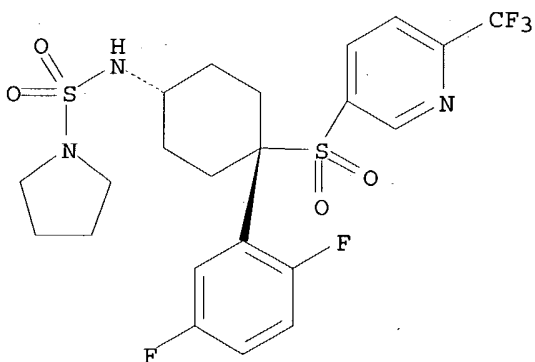
10/679,902



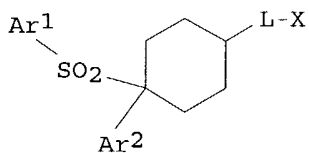
RN 679433-14-8 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl] - (9CI) (CA INDEX NAME)

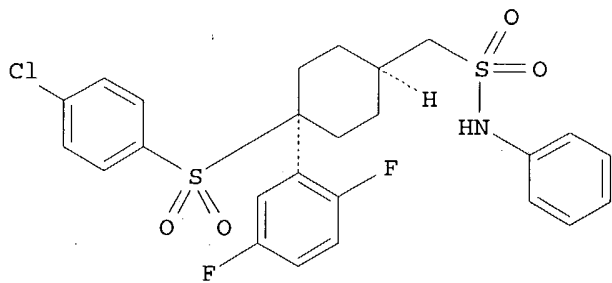
Relative stereochemistry.



GI



I



II

AB Aryl cyclohexyl sulfones (shown as I; variables defined below; e.g. II) inhibit the processing of APP by  $\gamma$ -secretase, and hence are useful in treatment of Alzheimer's disease. For I: X = SCN, SR1, S(O)R1, (CRaRb)mSO2R1, SO2N(R2)2, SO2NHCOR1, SO2NHN(R2)2, OSO2N(R2)2, OS(O)N(R2)2, OSO2NHCOR1, COR4, NHCOR1, NHCO2R1, NHCON(R2)2, NHSO2R1 or NHSO2N(R2)2; L = a bond, :CH- or -(CHRa)n- with provisos; n = 1-3; Ar1 and Ar2 = Ph or heteroaryl, either of which bears 0-3 halogen, CN, NO2, CF3, CHF2, OH, OCF3, CHO, CH:NOH, C1-4-alkoxy, C1-4-alkoxycarbonyl, C2-6-acyl, C2-6-alkenyl, and C1-4-alkyl; Ra = H, alkyl; Rb = H, alkyl, CO2H, alkoxycarbonyl, alkylsulfonyl; R1 = CF3, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl(alkyl), heterocyclyl(alkyl); R2 = H, (substituted) alkoxy, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl; R3 = H, alkyl, Ph, heteroaryl; R4 = CRaRbSO2R1, pyridine N-oxide, substituted Ph, heteroaryl; addnl. details are given in the claims. Although the methods of preparation are not claimed, example preps. and/or characterization data are included for <180 examples of I and some intermediates. For example, II was prepared from excess aniline and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanesulfonyl chloride, which was prepared from SO2Cl2, KNO3 and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanethiol, which was prepared from in 2 steps from iodo[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methane, which was prepared photochem. from [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid, iodoisobenzene diacetate and I2. The examples all had an ED50 against  $\gamma$ -secretase of <1  $\mu$ M, typically <0.5  $\mu$ M, in most cases <100 nM, and in preferred cases <10 nM.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:27:37 ON 09 NOV 2004)

FILE 'REGISTRY' ENTERED AT 14:27:47 ON 09 NOV 2004

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L2 4 S L1  
L3 STRUCTURE UPLOADED  
L4 4 S L3  
L5 90 S L3 FUL

FILE 'CAPLUS' ENTERED AT 14:31:39 ON 09 NOV 2004

L6 2 S L5

=> log y

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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| ENTRY      | SESSION |
| -1.40      | -1.40   |

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